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Intraocular optical system.

The invention relates to an intraocular optical system (7) for insertion into the capsula lentis after removal of the natural eye lens, which is characterized in that it is a hollow body having an outer shape following the inner shape of the capsula lentis (6) at least in the main lines and leaning against its inner wall and keeping it in a moderately tensioned state, and comprises a front element (1), a rear element (2), an elastically deformable element (3) provided between the front element (1) and the rear element (2), and one to four lenses (4, 5) at least one of the lenses (4, 5) being provided such as to move axially at contraction and release of the accommodation muscles of the eye.

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This intraocular optical system is preferably made from biocompatible materials. The system (7) deformed into a rod-like form with a diameter of less than 3 mm can be introduced into the eye through a very small incision. The system does not induce tissue irritation effects or secondary glaucoma and is self-accomodating.

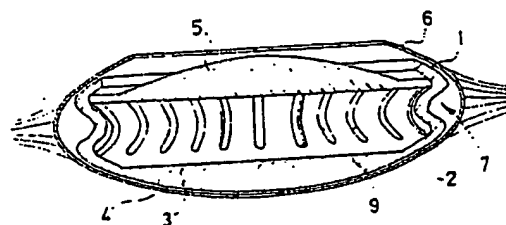


FIG 1



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	US-A-4 409 691 (C.F. LEVY) * Abstract; column 2, lines 31-51; figures 1,2,4 * ---	1,2,9, 10	A 61 F 2/16
A	US-A-4 710 194 (C.D. KELMAN) * Abstract * ---	1-3,12, 13,15	
A	EP-A-0 212 616 (KINGSTON TECHNOLOGIES) * Column 10, line 1 - column 11, line 21; figures 4-6 * ---	1-3,9, 14	
A	EP-A-0 162 573 (S.D. HECHT) * Page 9, lines 9-22; page 11, lines 16-22; page 17, lines 13-24; page 16, lines 8-28; page 21, lines 19-23; figures 9,11,12 * ---	1,6,8,9 ,11,17	
A,P	GB-A-2 199 672 (CESKOSLOVENSKA AKADEMIE) * Abstract; example 3 * ---	12,13, 15	
P,X	US-A-4 790 847 (R.L. WOODS) * Abstract; column 4, line 60 - column 5, line 4; column 5, line 47 - column 6, line 22; figures 1,2 * ---	1-5,8,9	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
E	US-A-4 842 601 (S.G. SMITH) * Whole document * -----	1-5,8- 10,12, 15	A 61 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31-01-1990	Examiner WOLF C.H.S.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- A : member of the same patent family, corresponding document	